

CLAGGIFICATION OF UATEENAEY GUEFICIAL DE OGITG, GOUTHEEN CALIFOENIA AEEAL MA ING EOJECT (GCAM )

Alluvial Deposits

Version 1.0 09/10/2000

	ALLJ VIAL DEPO II					(1) Age ± Ka	(2)	(3)
	Wash deposits	Alluvial-fan deposits	Alluvial-valley deposits	lope-wash deposits	Pediment-veneer deposits			
<b>VEEY YOUNG.--</b> J ndissected surfaces; rilled to incised to veneered; older elements may have organic layer and (or) slight A horizon	Qw	Qf	Qa					
	Qw <sub>2</sub>	Qf <sub>2</sub>	Qa <sub>2</sub>	Qsw	Qpv		I 9	Q4b
	Qw <sub>1</sub>	Qf <sub>1</sub>	Qa <sub>1</sub>					Q4a
<b>YOUNG.--</b> J ndissected to slightly dissected surfaces; A/Cox and Bcambic soils; slight to moderate K horizon; slight pavement & varnish; slight calcrete; ; in arid settings, Av horizon developed	Qyw	Qyf	Qya	Qysw	Qypv		I 8	
		Qyf <sub>5</sub>	Qya <sub>5</sub>				I 7	
		Qyf <sub>4</sub>	Qya <sub>4</sub>				I 6	
		Qyf <sub>3</sub>	Qya <sub>3</sub>				I 5	
		Qyf <sub>2</sub>	Qya <sub>2</sub>				I 4	
		Qyf <sub>1</sub>	Qya <sub>1</sub>				I 3	
<b>OLD.--</b> Moderately dissected surfaces; good Bt horizon; 10Y to 5Y hues; slightly sticky and plastic; continuous (±) clay films; moderate K horizon; moderate pavement and varnish; moderate calcrete	Qow	Qof	Qoa	Qosw	Qopv		I 2	
		Qof <sub>3</sub>	Qoa <sub>3</sub>					
		Qof <sub>2</sub>	Qoa <sub>2</sub>					
		Qof <sub>1</sub>	Qoa <sub>1</sub>					
<b>VEEY OLD.--</b> Well dissected surfaces; strong Bt horizon with 5Y to 10 hues; sticky & plastic; prismatic structure; thick clay films on ped faces; strong K horizons; excellent pavement; good calcrete & duripan	Qvow	Qvof	Qvoa	Qvosw	Qvopv		I 1	
		Qvof <sub>3</sub>	Qvoa <sub>3</sub>					
		Qvof <sub>2</sub>	Qvoa <sub>2</sub>					
		Qvof <sub>1</sub>	Qvoa <sub>1</sub>					

For CAMP geologic-map products, grain-size and physical-property information for surficial units is stored in digital data bases through the use of coded attributes (Matti and others, 1997). At the option of the geologic-map author, characteristic grain size information can be displayed in plot files through the use of alpha characters (e.g. Qyf<sub>b</sub>, Qoa<sub>2a</sub>), where the characters conform to the following definitions:

- a - arenaceous (very coarse sand through very fine sand)
- b - boulder gravel ( > 25mm)
- g - gravel (cobble through granule gravel)
- s - silty
- c - clayey
- m - marl
- p - peat

- (1) Numerical time scale is not linear;
- (2) Terrace-age designations proposed by McFadden (1982) and by Bull (1991, Figure 4.11) for alluvial deposits in Mediterranean-climate regimes of southern California;
- (3) Geomorphic-surface designations proposed by Bull (1991, Table 2-13) in arid climatic regimes of southern California

Bull, W. ., 1991, Geomorphic responses to climatic change: New York, Oxford University Press, 326 p.

Matti, J.C., Miller, F.K., Powell, .E., Kennedy, .A., and Cossette, P.M., 1997a, Geologic-polygon attributes for digital geologic-map data bases produced by the Southern California Areal Mapping Project, version 1.0: J. . Geological Survey Open-File report 97-860, 248 p.

McFadden, L.D., 1982, The impacts of temporal and spatial climatic changes on alluvial soils genesis in southern California: Tucson, University of Arizona, unpublished Ph.D. thesis, 430 p.